



# HOLMES HALLS (PROCESSORS) LTD

## Restricted Substances List (RSL) & Manufacturing Substances List (MRSL)

Version 1 - 2023



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## 1.1 Scope of Policy

### Introduction

#### Our Restricted Substance List (RSL)

Holmes Halls (Processors) Ltd we have adopted Zero Discharge of Hazardous Chemicals to the environment approach as part of our manufacturing restricted substance List (MRSL).

All suppliers associated with the manufacture of any product used by Holmes Halls (Processor) Ltd are responsible for the correct implementation of the MRSL at their own facilities and with their upstream suppliers, subcontractors and partners.

At Holmes Halls (Processors) Ltd we have produced a restricted substance policy (RSP), which is an integral part of our commitment to product safety and all our suppliers must accept and comply with this policy. As such we must ensure all chemicals used in our process must also comply with our MRSL requirements.

The harmful and /or hazardous substances concerned are detailed in their entirety in RSL & MRSL Tables separate sections detailed below.

- The specified Threshold Limit Value
- The types of materials which may contain the harmful and/or hazardous substances
- The test and detection method which is to be used
- The basis on which the measurement is made

**Restricted Substances List (RSL)** – This list details the chemicals/chemical elements or chemical compounds that are classified as hazardous or harmful within our RSL policy and as such we will continually monitor and test, to ensure their levels do not exceed the specific threshold limits.

**Manufacturing Restricted Substances List (MRSL)** – This list details the chemicals/chemical elements or chemical compounds that are classified as hazardous or harmful and are banned from intentional use in facilities processing any chemicals, leather, rubber, foam, and adhesives. As such we expect our chemical suppliers not to use these intentionally during the manufacturing of any products used by Holmes Halls (Processors) Ltd.

**REACH Substances of very high concern (SVHC)** - These are substances that are thought to be carcinogens, mutagens or very harmful to the environment.

## RSL & MRSL Policy V1- 2023

Holmes Halls (processor) Ltd reserves the right, but not the obligation, to test, by the RSL-specified method, or other appropriate method, any ordered material, part, chemical and other good, at any time or stage of production annually using 3<sup>rd</sup> party labs.

This policy will be reviewed and updated annually and re issues out to all customers and suppliers.

### 1.1 Suppliers and customers responsibilities

The RSL policy incorporates all existing and near future legislative requirements that Holmes Halls (Processors) Ltd will be committed to comply with.

This section aims to simplify the larger document by outlining our exact expectations from our suppliers and customers.

We require each of our customers to acknowledge our V1 2023 Holmes Halls (Processors) Ltd RSL policy by executing the Customer RSL Compliance Agreement and to sending it back to Holmes Halls (Processors) Ltd environmental department.

We require our chemical manufacturing suppliers to certify their compliance to the V1 2023 Holmes Halls (Processors) Ltd MRSL policy by executing the Supplier MRSL Compliance Agreement and to sending it back to Holmes Halls (Processors) Ltd environmental department.

All suppliers must notify Holmes Hall (Processors) Ltd of any chemicals on the SVHCs and MRSL which is being used in our products and at what proportion they are present. Any new materials/components introduced into the products should be checked and the notification log (4.1 & 4.2) updated as necessary

#### Customers Declarations

- Declarations of Conformity – to acknowledge and acceptance of the overall RSL Policy by signing the Customers RSL Compliance Agreement- 4.0 declaration

#### Suppliers Declarations

- Declarations of Conformity – to the overall MRSL Policy by signing the Supplier MRSL Compliance Agreement- 4.1 declaration
- Notification log to SVHC – 4.2 log
- Notification log to MRSL – 4.3 log

## **2.0 Restricted Substances List (RSL) Tables**

The following section contains the detailed restricted substance tables

Table 2.1 the master table is laid out clearly detailing the chemical compound showing the materials concerned with each chemical compound. The official test methods for detection and legislative requirements are also detailed.

Sections 2.2.– detail where suppliers can find the additional required RSL lists associated with REACH– the web site hold the required information and are constantly updated as legislation changes.

Holmes Halls (Processors) Ltd may also update the tables contained under section 2 in line with any legislative changes – if this happens the policy document will be resent electronically to all parties.



## 2.1 Restricted Substance List

Alkylphenols (AP) and Alkylphenol Ethoxylates (APEO's) (Including all isomers)					
Restricted Substance	Cas No	Method (or equivalent)	Minimum Requirement	Main Drivers	Additional Comments
APEOs are primarily used as detergents in the textile wet processing industry but they are also used in the leather industry as degreasing products and in small quantities as emulsifiers or wetting agents in some dyestuff and pigment preparations. APEO's can degrade into AP's in the environment; AP's are toxic to aquatic life and can cause severe environment problems.					
Nonylphenol (NP) Mixed isomers	Various	Leather: BS EN ISO 18218-2:2019	SUM OP & NP 10 ppm		
Octylphenol (OP), Mixed isomers	Various		SUM OP & NP 10 ppm		
Nonylphenoethoxylates (NPEOs)	Various	Leather: BS EN ISO 18218-1:2015 or BS EN ISO 18218-2:2019	SUM OPEO & NPEO 100 ppm		
Octylphenoethoxylates (OPEOs)	Various		SUM OPEO & NPEO 100 ppm		

Chrome VI (" Chrome VI, crVI, Hexavalent Chromium")					
Restricted Substance	Cas No	Method (or equivalent)	Minimum Requirement	Main Drivers	Additional Comments
Chromium is a transition element and can exist in three stable forms known as metallic chromium, chromium III and chromium VI. Chromium III is a nonrestricted form of the element and is widely used in the leather tanning process, however under specific conditions, Chromium III can be oxidised into hazardous Chromium VI. Chromium VI has been linked to allergenic skin conditions and is considered a human carcinogen.					
Chrome VI	18540-29-9	BS EN ISO 17075-2:2017	<3.0ppm		Chrome VI is not intentionally added to leather. Leather manufacturing processes to be tightly controlled
Chromium VI (Heat Ageing)		BS EN ISO 10195:2021 followed by BS EN ISO 17075-2:2017			

Natural Fat Content					
Restricted Substance	Cas No	Method (or equivalent)	Minimum Requirement	Main Drivers	Additional Comments
Natural Fat Content	N/A	BS EN ISO 4048	< 3 % ss		



## 2.1 Restricted Substance List

<b>Formaldehyde</b>					
<b>Formaldehyde is a naturally occurring substance that can be used in the finishing of leather or in certain tanning auxiliaries, primarily as a cross linking agent. Formaldehyde is a skin irritant and is also classified as a possible human carcinogen.</b>					
<b>Restricted Substance</b>	<b>Cas No</b>	<b>Method (or equivalent)</b>	<b>Minimum Requirement</b>	<b>Main Drivers</b>	<b>Additional Comments</b>
Formaldehyde	Formaldehyde	Leather: BS EN ISO 17226-1:2021	Wet Blue/White <16 ppm		

<b>Hexane</b>					
<b>Hexane is found in plastic production, paints and coatings and aerosols, as it is a flammable VOC</b>					
<b>Restricted Substance</b>	<b>Cas No</b>	<b>Method (or equivalent)</b>	<b>Minimum Requirement</b>	<b>Main Drivers</b>	<b>Additional Comments</b>
Hexane Extract		ASTM D7674-14a	<3.0 %	Prop 65	

<b>Heavy Metals (Total Content) (“ Total Digest”)</b>					
<b>Heavy metals such as Lead and Cadmium are heavy metal are found in pigments, metal alloys and coatings, which can cause irreversible neurological damage as well as renal disease, cardiovascular defects and reproductive toxicity. Lead can be used as a stabilizer in PVC production. It can be found in metal alloys of metallic components as well as a component of pigments in leathers, textiles and paints.</b>					
<b>Restricted Substance</b>	<b>Cas No</b>	<b>Method (or equivalent)</b>	<b>Minimum Requirement</b>	<b>Main Drivers</b>	<b>Additional Comments</b>
Arsenic (As)	7440-38-2	Leather: BS EN ISO 17072-2:2022 or Acid Digestion, ICP-MS	10 ppm		
Cadmium (Cd)	7440-43-9		40 ppm		
Lead (Pb)	7439-92-1		40 ppm		
Mercury (Hg)	7439-97-6		1 ppm		

<b>pH Value</b>					
<b>Restricted Substance</b>	<b>Cas No</b>	<b>Method (or equivalent)</b>	<b>Minimum Requirement</b>	<b>Main Drivers</b>	<b>Additional Comments</b>
pH Value - Leather	N/A	BS EN ISO 4045:2018	Max 4.5 for chrome tanned leather) (3.2-4.5 for wet blue)		



## 2.1 Restricted Substance List

Heavy Metals - Extractable Content	Extractable metals are metals that are released from a material under certain conditions. ("Soluble, Migratable, Leachable, Free")				
Restricted Substance	Cas No	Method (or equivalent)	Minimum Requirement	Main Drivers	Additional Comments
Antimony (Sb)	7440-36-0	Leather: BS EN ISO 17072-1:2019	< 30 ppm		
Arsenic (As)	7440-38-2		< 0.2 ppm		
Barium (Ba)	7440-39-3		< 1000 ppm		
Cadmium (Cd)	7440-43-9		< 0.1 ppm		
Chromium VI (CrVI)	18540-29-9		< 1.0 ppm*		
Cobalt (Co)	7440-48-4		1 ppm		
Copper (Cu)	7440-50-8		25 ppm		
Lead (Pb)	7439-92-1		0.2 ppm		
Mercury (Hg)	7439-97-6		< 0.02 ppm		
Nickel (Ni)	7440-02-0		< 1.0 ppm		
Selenium (Se)	7782-49-2		< 100 ppm		

## 2.1 Restricted Substance List

Fungicides (Preservatives preserving Agents)	Fungicides are used to prevent the growth of mould on the processed and finished leather, as they are essential to the leather processing, fungicides are usually approved for usage type rather than restricted				
Restricted Substance	Cas No	Method (or equivalent)	Minimum Requirement	Main Drivers	Additional Comments
Orthophenylphenol (OPP)	90-43-7	BS EN ISO 13365-1:2020	<200 PPM		
Dimethylfumarate (DMFu)	624-49-7	BS EN ISO 16186:2021	<0.1 ppm		





## 2.1 Restricted Substance List

<b>Organotins ("Organotin Compounds, Organostannic Compounds")</b> Organotins are substances composed of tin directly bound to different organic groups. They are often used as a heat stabiliser in PVC compounds; however, they may also be used as biocides or preservatives in textile and leather. Organotins are toxic to aquatic life and can have adverse effects on human health.					
Restricted Substance	Cas No	Method (or equivalent)	Minimum Requirement	Main Drivers	Additional Comments
Dibutyltin (DBT)	Various	PD CEN ISO/TS 16179:2012	Tributyltin (TBT) <0.5ppm Triphenyltin (TPhT) <0.5ppm All others <1.0ppm (each)		
Diocetyl tin (DOT)					
Monobutyltin (MBT)					
Tricyclohexyltin (TCyHT)					
Trimethyltin (TMT)					
Triocetyl tin (TOT)					
Tripopyltin (TPT)					
Tributyltin (TBT)					
Triphenyltin (TPhT)					

<b>Chlorophenol (PCP, TeCP, TCP)</b> Chlorophenols are man made materials and are generally used as pesticides. In leather and textiles industry they are used in the transportation and storage as preservatives. Chlorophenols are toxic to aquatic life and has been linked to some form of cancer.					
Restricted Substance	Cas No	Method (or equivalent)	Minimum Requirement	Main Drivers	Additional Comments
2,3,4-Trichlorophenol	15950-66-0	BS EN ISO 17070:2015 DIN 50009:2021	0.5 ppm (each)		
2,3,5-Trichlorophenol	933-78-8				
2,3,6-Trichlorophenol	933-75-5				
2,4,5-Trichlorophenol	95-95-4				
2,4,6-Trichlorophenol	88-06-2				
3,4,5-Trichlorophenol	609-19-8				
2,3,4,5Tetrachlorophenol	4901-51-3				
2,3,4,6Tetrachlorophenol	58-90-2				
2,3,5,6Tetrachlorophenol	935-95-5				
Pentachlorophenol	87-86-5				



Chlorinated Paraffins ("Chloroalkanes")					
Short Chain Chlorinated Paraffins (SCCPs) and Medium Chain Chlorinated Paraffins (MCCPs) are commonly used as flame retardants, surface coatings and plasticisers. SCCP's are very persistent environmental pollutants and toxic to aquatic life.					
Restricted Substance	Cas No	Method (or equivalent)	Minimum Requirement	Main Drivers	Additional Comments
Short Chain Chlorinated Paraffins (SCCPs) (C10-C13)	85535-84-8	Leather: BS EN ISO 18219-1:2021	<1000ppm (sum)		
Medium Chain Chlorinated Paraffins (MCCPs) (C14-C17)	85535-85-9	Leather: BS EN ISO 18219-2:2021	<1000ppm (sum)		

\*See Manufacturing Restricted Substances List (MRSL) Section



## 2.2 REACH Substances of Very High Concern (SVHC)

REACH is a European Union regulation concerning the Registration, Evaluation, and Authorisation & Restriction of Chemicals. Manufacturers, Importers, Distributors, Retailers and downstream users all have responsibilities under REACH.

One part of this legislation is a Candidate List of SVHCs (Substances of Very High Concern). These are substances of particular concern due to their hazardous properties to human health and/or the environment. These substances include CMR's (carcinogens, mutagens and toxic to reproduction), PBT's (persistent, bio accumulative and toxic) and vPvB's (very persistent, very bio accumulative).

Any supplier whose products containing SVHC's at concentrations of more than 0.1% by weight of the article must provide available and relevant safety information about the substance to the recipients of these articles. In addition, this information also needs to be provided to consumers within 45 days of a request.

The Candidate SVHC list is subject to continual development and will keep growing, it is the responsibility of all suppliers to constantly check

The full list of substances can be found at

[Candidate List of substances of very high concern for Authorisation - ECHA \(europa.eu\)](https://echa.europa.eu/candidate-list-table)

### Liabilities

It is the responsibility of all suppliers to ensure that they notify Holmes Hall (Processors) Ltd of the presence of any SVHCs in finished products. They will be held liable for any costs incurred as a result of the discovery of these substances if no prior notification has been given.

The list is updated on an ongoing basis, and we require that all suppliers check regularly for updates or subscribe to an update service.



### 3.0 Manufacturing Restricted Substances List (MRSL) Table

This table below details the chemicals/chemical elements or chemical compounds that are classified as hazardous or harmful and as such should not be used in the manufacture of components/ chemicals used within Holmes Halls (Processors) Ltd.

The MRSL list is subject to continual development and will keep growing, it is the responsibility of all suppliers to constantly check

The full list of substances can be found at [ZDHC MRSL V2.0 \(roadmapzero.com\)](https://www.zdmc.co.uk/roadmapzero)

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers					
104-40-5 11066-49-2 25154-52-3 84852-15-3	Nonylphenol (NP), mixed isomers	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm 250 ppm 250 ppm	Liquid chromatographymass spectrometry (LC-MS), gas chromatography-mass spectrometry (GC-MS)
9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0	Nonylphenoethoxylates (NPEO)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	500 ppm 500 ppm 500 ppm	
9002-93-1 9036-19-5 68987-90-6	Octylphenoethoxylates (OPEO)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	500 ppm 500 ppm 500 ppm	
140-66-9 1806-26-4 27193-28-8	Octylphenol (OP) ,mixed isomers	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm 250 ppm 250 ppm	



### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
<b>Anti-Microbials &amp; Biocides</b>					
90-43-7	o-Phenylphenol (+salts)	Textile Leather  ----- Polymers (R,F,A)*	No intentional use ----- No Limit	5000 ppm Use is permitted and OPP is approved for use under BPR PT6 as a preservative for formulations  -----	Solvent extraction LC MS, LC DAD, GC MS
Multiple	Permethrin	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm except for processes mentioned	Solvent extraction, LC MS/MS, GC MS/MS
In most situations, deliberate use is not permitted. However, it should be noted that Permethrin is approved for use on PT18 under BPR and is permitted for use on wool curtains and carpets, rugs and floor coverings. Permethrin is permitted for PPE use (EU 2016/425, EPA registered product, APVMA Registered Product, PMRA Registered Product, etc.). Also, its use is sometimes stipulated for certain end uses such as military. All efforts should be made to maximise the durability of the chemical finish and to minimise losses to the environment.					
3380-34-5	Triclosan	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm 250 ppm 250 ppm	solvent extraction LC MS, DAD

### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Chlorinated Parafins					
85535-84-8	Short-chain Chlorinated paraffin (C10–C13)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No Limit	50 ppm 250 ppm	prEN ISO 22699-2
85535-85-9	Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	500 ppm 500 ppm 500 ppm	prEN ISO 22699-2

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Chlorobenzenes and Chlorotoluenes					
95-50-1	1,2-dichlorobenzene	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	500 ppm 500 ppm 500 ppm	GC-MS
Multiple	Other isomers of mono-, di-, tri-, tetra-, penta- and hexachlorobenzene and mono-, di-, tri-, tetra- and pentachlorotoluene	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum = 200 ppm GC-MS tetrachlorotoluene, and trichlorotoluene 10 ppm each	GC-MS

### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Chlorophenols					
87-86-5	Pentachloropheno l (PCP) 1	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 20 ppm	GC-MS EN ISO 17070
Multipl	Tetrachlorophenol (TeCP) 1	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 20 pp	GC-MS EN ISO 17070
120-83-2	2,4-dichloropheno l 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances	GC-MS EN ISO 17070
95-57-8	2-chlorophenol 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 50 ppm	GC-MS EN ISO 17070 2
583-78-8	2,5-dichloropheno l 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 50 ppm	GC-MS EN ISO 17070 2
87-65-0	2,6-dichloropheno l 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 50 ppm	GC-MS EN ISO 17070 2
88-06-2	2,4,6-trichlorophe nol 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 50 ppm	GC-MS EN ISO 17070 2
591-35-5	3,5-dichloropheno l 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 50 ppm	GC-MS EN ISO 17070 2
95-95-4	2,4,5-trichlorophe nol 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 50 ppm	GC-MS EN ISO 17070 2



### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Chlorophenols					
576-24-9	2,3-dichloropheno l 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 50 ppm	GC-MS EN ISO 17070
95-77-2	3,4-dichloropheno l 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 50 ppm	GC-MS EN ISO 17070
108-43-0	3-chlorophenol 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 50 ppm	GC-MS EN ISO 17070
106-48-9	4-chlorophenol 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 50 ppm	GC-MS EN ISO 17070
15950-66-0	2,3,4-trichlorophe nol 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 50 ppm	GC-MS EN ISO 17070
609-19-8	3,4,5-trichlorophe nol 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 50 ppm	GC-MS EN ISO 17070
933-78-8	2,3,5-trichlorophe nol 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 50 ppm	GC-MS EN ISO 17070
933-75-5	2,3,6-trichlorophe nol 2	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 50 ppm	GC-MS EN ISO 17070



### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Dyes – Azo (Forming Restricted Amines)					
101-80-4	4,4-oxydianiline	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
101-14-4	4,4-methylene-bis- (2-chloro-aniline)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
119-90-4	3,3-dimethoxybenzidine	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
101-77-9	4,4-methylenedianiline	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
106-47-8	4-chloroaniline	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
119-93-7	3,3-dimethylbenzidine	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
120-71-8	6-methoxy-mtoluidine	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
139-65-1	4,4-thiodianiline	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
60-09-3	4-aminoazobenzene	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC

### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Dyes – Azo (Forming Restricted Amines)					
137-17-7	2,4,5-trimethylaniline	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
90-04-0	o-anisidine	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
838-88-0	4,4-methylenedinitrotoluidin	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
91-94-1	3,3'-dichlorobenzidine	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
615-05-4	4-methoxy-mphenylenediamine	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
87-62-7	2,6-xylidine	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
91-59-8	2-naphthylamine	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
95-53-4	o-toluidine	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
92-87-5	Benzidine	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC

### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Dyes – Azo (Forming Restricted Amines)					
95-69-2	4-chloro-otoluidine	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
92-67-1	4-aminodipheny	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
95-80-7	4-methyl- mphenylenediamine	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
95-68-1	2,4-xylydine	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
97-56-3	oaminoazotoluene	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
99-55-8	5-nitro-o-toluidine	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
553-00-4	2-Naphthylammon iumacetate	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
3165-93-3	4-chloro-otoluidinium chloride	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC
39156-41-7	4-methoxy- mphenylene diammonium sulphate;	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC

	2,4-diaminoanisole sulphate				
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### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Dyes – Azo (Forming Restricted Amines)					
21436-97-5	2,4,5-trimethylaniline hydrochloride	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	150 ppm	LC, GC

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Dyes – Carcinogenic or Equivalent Concern					
632-99-5	C.I. Basic Violet 14	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	DIN 54231
1937-37-7	C.I. Direct Black 38	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	DIN 54231
2602-46-2	C.I. Direct Blue 6	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	DIN 54231
3761-53-3	C.I. Acid Red 26	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	DIN 54231
573-58-0	C.I. Direct Red 28	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	DIN 54231



### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Dyes – Carcinogenic or Equivalent Concern					
569-61-9	C.I. Basic Red 9	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	DIN 54231
2475-45-8	C.I. Disperse Blue 1	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	DIN 54231
2580-56-5	C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	DIN 54231
2475-46-9	C.I. Disperse Blue 3	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	DIN 54231
2437-29-8	C.I. Basic Green 4 (Malachite Green Oxalate)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	DIN 54231
569-64-2	C.I. Basic Green 4 (Malachite Green Chloride)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	DIN 54231
82-28-0	Disperse Orange 11	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	DIN 54231
10309-95-2	C.I. Basic Green 4 (Malachite Green)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	DIN 54231



### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Dyes – Disperse (Sensitising)					
12236-29-2	Disperse Yellow 39	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
23355-64-8	Disperse Brown 1	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
119-15-3	Disperse Yellow 1	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
12222-97-8	Disperse Blue 102	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
12223-01-7	Disperse Blue 106	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
13301-61-6	Disperse Orange 37/59/76	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
2581-69-3	Disperse Orange 1	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
2832-40-8	Disperse Yellow 3	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
2872-48-2	Disperse Red 11	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC



### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Dyes – Disperse (Sensitising)					
2872-52-8	Disperse Red 1	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
3179-89-3	Disperse Red 17	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
54824-37-2	Disperse Yellow 49	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
3179-90-	Disperse Blue 7	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
3860-63-7	Disperse Blue 26	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
6373-73-5	Disperse Yellow 9	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
61951-51-7	Disperse Blue 124	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
12222-75-2	Disperse Blue 35	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
730-40-5	Disperse Orange 3	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC

56524-77-7	Disperse Blue 35	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
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### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Dyes – Navy Blue Colourant					
118685-33-9	Component 1: C39 H23Cl-CrN7O12S 2Na	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC
Not Allocated	Component 2: C46 H- 30CrN10O20S2 3Na	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	LC

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Flame Retardants					
32536-52-0	Octabromodiphen yl ether (OctaBDE)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
115-96-8	Tris (2-chloroethyl) phosphate (TCEP)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
126-72-7	Tris (2,3,-dibromo propyl) -phosphate (TRIS)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
5412-25-9	Bis (2,3-dibromopr opyl) phosphate (BIS)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS





### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Flame Retardants					
1163-19-5	Decabromodiphenyl ether (DecaBDE)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
32534-81-9	Pentabromodiphenyl ether (PentaBDE)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
545-55-1	Tris (1-aziridinyl) phosphineoxide (TEPA)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
79-94-7	Tetrabromobisphenol A (TBBPA)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
13674-87-8	Tris (1,3-dichloroisopropyl) phosphate (TDCP)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
59536-65-1	Polybromobiphenyls (PBB)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
3296-90-0	2,2-bis (bromomethyl)-1,3-propanediol (BBMP)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
3194-55-6	Hexabromocyclododecane (HBCDD)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS

### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Flame Retardants					
10043-35-3/ 11113-50-1	Boric acid	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
13654-09-6	Decabromobiphenyl (DecaBB)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
1303-96-4/ 1330-43-4	Disodium tetraborate, anhydrous	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
12008-41-2	Disodium octaborate	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
21850-44-2	dibromopropylether	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
1303-86-2	Diboron trioxide	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
68928-80-3	Heptabromodiphenyl ether (HeptaBDE)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
Multiple	Dibromobiphenyls (DiBB)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS



### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Flame Retardants					
Multiple	Monobromodiphenylethers (MonoBDEs)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
Multiple	Monobromobiphenyls (MonoBB)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
36483-60-0	Hexabromodiphenyl ether (HexaBDE)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
Multiple	Nonabromobiphenyls (NonaBB)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
63936-56-1	Nonabromodiphenyl ether (NonaBDE)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
Multiple	Octabromobiphenyls (OctaBB)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
12267-73-1	Tetraboron disodium heptaoxide, hydrate	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
40088-47-9	Tetrabromodiphenyl ether (TetraBDE)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS



### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Flame Retardants					
Multiple	Tribromodiphenyl ethers (TriBDEs)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS
13674-84-5	Tris- (2-chloro-1-m ethylethyl) phosphate (TCPP)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	250 ppm	GC-MS

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Glycols / Glycol Ethers					
110-71-4	Ethylene glycol dimethylether	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	50 ppm	High-performance liquid chromatography (HPLC), LCMS
110-49-6	2-methoxyethylacetate	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	50 ppm	High-performance liquid chromatography (HPLC), LCMS
110-80-5	2-ethoxyethanol	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	50 ppm	High-performance liquid chromatography (HPLC), LCMS
109-86-4	2-methoxyethanol	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	50 ppm	High-performance liquid chromatography (HPLC), LCMS
111-96-6	Bis (2-methoxyethyl) - ether	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	50 ppm	High-performance liquid chromatography (HPLC), LCMS



### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Glycols / Glycol Ethers					
111-15-9	2-ethoxyethyl acetate	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	50 ppm	High-performance liquid chromatography (HPLC), LCMS
70657-70-4	2-methoxypropyl acetate	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	50 ppm	High-performance liquid chromatography (HPLC), LCMS
112-49-2	Triethylene glycol dimethyl ether	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	50 ppm	High-performance liquid chromatography (HPLC), LCMS

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Halogenated Solvents					
75-09-2	Methylene chloride	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	5 ppm	GC-MS
79-01-6	Trichloroethylene	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	40 ppm	GC-MS
127-18-4	Tetrachloroethylene	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	5 ppm	GC-MS
100-44-7	Benzylchloride	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	50 ppm, and 100 ppm for dyes	GC-MS with confirmatory LCMS in the event of a positive detection

### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Halogenated Solvents					
107-06-2	1,2-dichloroethane	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	5 ppm	GC-MS

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Organotin Compounds					
Multiple	Dibutyltin (DBT)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	20 ppm (EXCEPTION 100 ppm for polyurethane based thickeners used at	Solvent extraction, GC MS, ISO TS 16179
Multiple	Mono-, di- and trimethyltin derivatives	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	5 ppm	Solvent extraction, GC MS, ISO TS 16179
Multiple	Mono-, di- and trioctyltin derivatives	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	5 ppm	Solvent extraction, GC MS, ISO TS 16179
Multiple	Mono-, di- and triphenyltin derivatives	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	5 ppm	Solvent extraction, GC MS, ISO TS 16179
Multiple	Mono- and tributyltin derivatives	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	5 ppm	Solvent extraction, GC MS, ISO TS 16179
Multiple	Dipropyltin compounds (DPT)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	5 ppm	Solvent extraction, GC MS, ISO TS 16179

### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Organotin Compounds					
Multiple	Tetraethyltin Compounds (TeET)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	1 ppm	Solvent extraction, GC MS, ISO TS 16179
Multiple	Tripropyltin Compounds (TPT)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	1 ppm	Solvent extraction, GC MS, ISO TS 16179
Multiple	Tetrabutyltin compounds (TeBT)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	1 ppm	Solvent extraction, GC MS, ISO TS 16179
Multiple	Tetraoctyltin compounds (TeOT)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	1 ppm	Solvent extraction, GC MS, ISO TS 16179
Multiple	Tricyclohexyltin (TCyHT)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	1 ppm	Solvent extraction, GC MS, ISO TS 16179

### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Other/ Miscellaneous Chemicals					
12767-90-7	Borate, zinc salt	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	1000 ppm	Acid digestion, ICP
Borate, zinc salt can be used as a flame retardant but also in paints, pigments, and adhesives					
80-05-7	Bisphenol A	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No Limit	100 ppm	Solvent extraction, LC MS/MS, GC MS
Bisphenol A (BPA) is a precursor chemical used along with other chemicals to create some plastics and resins. It is commonly used to harden plastics.					
62-56-6	Thiourea	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	1000 ppm	Solvent extraction, LC MS/MS, GC MS
Contaminant of dispersing agents in disperse dyes					
14464-46-1	Silica (particles of respirable size)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	No use of Sand Blasting	Process due diligence, no test method available
Respirable particles of silica are often generate during the process of sand blasting.					
111-41-1	AEEA [2- (2-amino ethylamino) ethanol]	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	100 ppm	Solvent extraction, LC MS/MS, GC MS
AEEA is used a.o. in chelating agents, surfactants and fabric softeners					





### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Perfluorinated and Polyfluorinated Chemicals (PFCs)					
Multiple	Perfluorooctane sulfonate (PFOS) and related substances	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum = 2 ppm	LC-MS
Multiple	Perfluorooctanoic acid (PFOA) and related substances	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	PFOA = 25 ppb PFOA-LC-MS related substances = 1000 ppb	LC-MS

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Phthalates – including all other esters of ortho-phthalic acid					
117-84-0	Di-n-octyl phthalate (DNOP)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS
117-82-8	Bis (2-methoxyethyl) phthalate (DMEP)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS
26761-40-0	Di-iso-decyl phthalate (DIDP)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS
117-81-7	Di (ethylhexyl) phthalate (DEHP)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS
28553-12-0	Di-isononyl phthalate (DINP)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS

### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Phthalates – including all other esters of ortho-phthalic acid					
84-75-3	Di-n-hexyl phthalate (DnHP)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS
85-68-7	Butyl benzyl phthalate (BBP) 5	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS
84-74-2	Dibutyl phthalate (DBP) 5	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS
84-76-4	Dinonyl phthalate (DNP)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS
84-66-2	Diethyl phthalate (DEP) 5	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS
131-16-8	Di-n-propyl phthalate (DPRP)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS
84-61-7	Di-cyclohexyl phthalate (DCHP)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS
84-69-5	Di-isobutyl phthalate (DIBP)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS

### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Phthalates – including all other esters of ortho-phthalic acid					
27554-26-3	Di-iso-octyl phthalate (DIOP) 5	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS
68515-42-4/ 68515-50-4	1,2-benzenedicarb oxylic acid, diC7-11 branched and liearalkyl esters (DHNUP) 5	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS
71888-89-6/ 84777-06-0	1,2-benzenedicarb oxylic acid, di-C6-8 branched and liearalkyl esters , C7-rich (DIHP) 5	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS
605-50-5	Di-npentylphthalates	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 250 ppm	GC-MS

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Polycyclic Aromatic Hydrocarbons (PAHs)					
50-32-8	Benzo[a]pyrene	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	20ppm	GC-MS



### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Polycyclic Aromatic Hydrocarbons (PAHs)					
129-00-0	Pyrene 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS
191-24-2	Benzo[ghi]perylene 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS
205-82-3	Benzo[j]fluoranthene 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS
120-12-7	Anthracene 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS
193-39-5	Indeno[1,2,3-cd]pyrene 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS
192-97-2	Benzo[e]pyrene 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS
205-99-2	Benzo[b]fluoranthene 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS
207-08-9	Benzo[k]	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS

### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Polycyclic Aromatic Hydrocarbons (PAHs)					
206-44-0	Fluoranthene 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS
208-96-8	Acenaphthylene 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS
53-70-3	Dibenz[a,h]anthra cene 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS
218-01-9	Chrysene 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS
85-01-8	Phenanthrene 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS
83-32-9	Acenaphthene 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS
86-73-7	Fluorene 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS
91-20-3	Naphthalene 3	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm 300ppm	GC-MS

### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Polycyclic Aromatic Hydrocarbons (PAHs)					
56-55-3	Benzo[a]anthracen e 3,4	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Sum of substances = 200 ppm	GC-MS

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Total Heavy Metals					
7440-38-2	Arsenic (As)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	50 ppm	Inductively coupled plasmaoptical emission spectrometry (ICP- OES), atomic absorption spectroscopy (AAS)
7440-43-9	Cadmium (Cd)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	20 ppm (50 ppm for pigments)	Inductively coupled plasmaoptical emission spectrometry (ICP- OES), atomic absorption spectroscopy (AAS)
7439-97-6	Mercury (Hg)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	4 ppm (25 ppm for pigments)	Inductively coupled plasmaoptical emission spectrometry (ICP- OES), atomic absorption spectroscopy (AAS)



### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
<b>Total Heavy Metals</b>					
7439-92-1	Lead (Pb)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	100 ppm	Inductively coupled plasmaoptical emission spectrometry (ICP-OES), atomic absorption spectroscopy (AAS)
18540-29-9	Chromium (VI)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	10 ppm	Inductively coupled plasmaoptical emission spectrometry (ICP-OES), atomic absorption spectroscopy (AAS)
7440-36-0	Antimony	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Dye 50/ Pigment 250 ppm	Acid digestion, ICP
7440-47-3	Chromium	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Dyes and Pigments 100 ppm	Acid digestion, ICP
7440-39-3	Barium	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Dyes and Pigments 100 ppm	Acid digestion, ICP
7782-49-2	Selenium	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Dyes 20/ pigments 100 ppm	Acid digestion, ICP
7440-31-5	Tin	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Dyes 250 ppm	Acid digestion, ICP



### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
<b>Total Heavy Metals</b>					
7440-02-0	Nickel	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Dyes 250 ppm	Acid digestion, ICP
7440-50-8	Copper	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Dyes 250 ppm	Acid digestion, ICP
7440-48-4	Cobalt	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Dyes 500 ppm	Acid digestion, ICP
7440-22-4	Silver	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	Dyes 100 ppm	Acid digestion, ICP

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
<b>UV absorbers</b>					
36437-37-3	2- (2Hbenzotriazol-2-yl) -4- (tert-butyl) -6- (sec- butyl) phenol (UV-350)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	1000 ppm	Solvent extraction, LC MS/MS, GC MS
3846-71-7	2-benzotriazol-2-yl - 4,6-di-tertbutylphenol (UV-320)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	1000 ppm	Solvent extraction, LC MS/MS, GC MS
3864-99-1	2,4-Di-tert-butyl-6- (5-chlorobenzotriazole-2-yl) phenol (UV-327)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	1000 ppm	Solvent extraction, LC MS/MS, GC MS



### 3.0 Manufacturing Restricted Substances List (MRSL) Table

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
UV absorbers					
25973-55-1	2- (2Hbenzotriazol-2-yl) - 4,6-ditertpentylph enol (UV-328)	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	1000 ppm	Solvent extraction, LC MS/MS, GC MS

CAS No.	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Volatile Organic Compounds (VOC)					
71-43-2	Benzene	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	50 ppm	GC-MS
95-48-7	o-cresol	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	500 ppm	GC-MS
106-44-5	p-cresol	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	500 ppm	GC-MS
1330-20-7	Xylene	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	500 ppm	GC-MS
108-39-4	m-cresol	Textile Leather Polymers (R,F,A)*	No intentional use No intentional use No intentional use	500 ppm	GC-MS



## 4.0 Customers Declaration of Conformity to Restricted Substance List (RSL)

We acknowledge receipt of the Holmes Halls (Processors) Ltd Restricted Substance Policy (RSP) and Manufacturing Restricted Substance Policy (MRSP) in relation to the monitoring and control of harmful and/or hazardous substances present in any products used by Holmes Halls (Processors) Ltd.

**We confirm that we have read and that we understand and accept the policy.**

We acknowledge that the policy forms part of the specification for all materials and/or products which are supplied by Holmes Halls (Processors) Ltd.

All products supplied by Holmes Halls (Processors) Ltd will not contain amounts of the harmful and/or hazardous substances listed in the Restricted Substance Policy (RSP) and Manufacturing Restricted Substance Policy (MRSP), which exceed the relevant Threshold Limit Values for those substances specified in the policy.

Failure to comply with the policy is a breach of any agreement we have with Holmes Halls (processor) Ltd, notwithstanding any other term of that agreement.

**Name**.....

**Company**.....

**Title**.....

**Signature**.....

**Date**.....

**Company Stamp (Chop**



### 4.1 Suppliers Declaration of Conformity to Manufacturing Restricted Substance List (MRSL)

We acknowledge receipt of the Holmes Halls (Processors) Ltd Restricted Substance List (RSL) and Manufacturing Restricted Substance List (MRSL) in relation to the monitoring and control of harmful and/or hazardous substances present in any products used by Holmes Halls (Processors) Ltd.

**We confirm that we have read and that we understand and accept the policy.**

We acknowledge that the policy forms part of the specification for all materials and/or products which we supply to Holmes Halls (Processors) Ltd, and accordingly we are legally obliged to comply with the policy and each shipment constitutes our warranty that the materials, parts, chemicals, and other goods shipped by us fully comply with the policy. We understand and agree that every order Holmes Halls (processor) Ltd gives us, is in reliance on this agreement.

**We declare that All** products supplied by us to Holmes Halls (Processors) Ltd will not contain amounts of the harmful and/or hazardous substances listed in the Restricted Substance List (RSL) and Manufacturing Restricted Substance List (MRSL), which exceed the relevant Threshold Limit Values for those substances specified in the policy.

We certify that each current and future material, part, chemical and other good, that we supply or otherwise deliver to Holmes Halls (processor) Ltd meets, and will continue to meet, each prohibition, limitation, and other requirement of the policy.

Any materials detailed under current Reach SVHC list that are used in any of our products – have been detailed in full in the attached declaration form 4.2

Any materials detailed under current Manufacturing Restricted Substances that are used in any of our products (detailed in 3.0 Manufacturing Restricted Substances List (MRSL) Table) – have been detailed in full in the attached declaration form 4.3

Failure to comply with the policy is a breach of any agreement we have with Holmes Halls (processor) Ltd, notwithstanding any other term of that agreement.

**Name**.....

**Company**.....

**Title**.....

**Signature**.....

**Date**.....

**Company Stamp (Chop**



### 4.2 REACH (SVHC) Notification Log

CAS NO	EC NO	Notifiable Substance	Material/Component substance is used in	Material/component supplier	Volume of substance in material component (%)	Product Name

Name.....

Company.....

Title.....

Signature.....

Date.....



### 4.3 MRSL Notification Log

CAS NO	EC NO	Notifiable Substance	Material/Component substance is used in (Material/Component Name)	Material/component supplier	Volume of substance in material component (%)	Product Name

Name.....

Company.....

Title.....

Signature.....

Date.....

## Nominated Test Labs

### SGS

SGS United Kingdom Ltd, Whittle Estate, Cambridge Road, Whetstone, Leicester, LE8 6LH

Tel: +44 (0)116 284 6780 Fax: +44 (0)116 284 6781

Contact: [nicola.moon@sgs.com](mailto:nicola.moon@sgs.com) & [philip.truelove@sgs.com](mailto:philip.truelove@sgs.com)

### BLC / Eurofin

Eurofins | BLC Leather Technology Centre Limited

Kings Park Road

Moulton Park

NN3 6JD, Northampton

United Kingdom

Contact : [mitchell@blcleathertech.com](mailto:mitchell@blcleathertech.com)

Beverley Analytical Laboratories Ltd.

Hull Bridge Mills

Tickton

Beverley HU17 9SB

Contact: [janet@beverleyanalytical.co.uk](mailto:janet@beverleyanalytical.co.uk)

NRM Laboratories

Coopers Bridge

Braziers Lane

Bracknell

RG42 6NS

Contact: [enquiries@nrm.uk.com](mailto:enquiries@nrm.uk.com)